October 1, 1953

COMPOSITE LIST OF CURRENTLY OPERATING FELLOWSHIPS, GRANTS-IN-AID, AND INSTITUTIONAL RESEARCH GRANTS TO CANCER RESEARCH FROM MAJOR AGENCIES ACTIVE ON OCTOBER 1, 1953

American Cancer Society	ACS
Atomic Energy Commission	AEC - Government
Damon Runyon Memorial Fund	DRMF
Elsa U. Pardee Foundation	EUPF
Jane Coffin Childs Memorial Fund	JCC
National Cancer Institute	NCI - Government

(Prepared from data available on October 1, 1953)
(Parentheses following name of investigator gives code number of grant for file purposes)

	Amount	Agency	Research Subjects
ALABAMA			
1. Alabama Polytechnic Institute (Auburn)			
Salmon (N-1F)	$ 10,000	ACS	Nutrition
Salmon (C-1018 C4)	18,800	NCI	
Salmon (C-1018 C5)	18,800	NCI	
	47,600		
2. Medical College of Alabama (Birmingham)			
Whiteside-Carlson & Carlson (C-1901)	6,480	NCI	Lipides, cell division
Carlson & Whiteside-Carlson (C-1902)	6,696	NCI	Tumor-inhibitory alkylating agents
	13,176		
3. Southern Research Institute (Birmingham)			
Murray (INSTR-38E)	52,909	ACS	Useful chemotherapeutic agents
Skipper (BI-5F)	20,000	ACS	Anti-cancer & radioactive anti-
Skipper (C-1184 C2)	8,564	NCI	leukemic agents
	81,473		
4. Tuskegee Institute (Tuskegee Institute)			
Henderson (CP-51A)	3,500	ACS	Sunflower callus tissue
Henderson (C-1632 C)	2,500	NCI	
	6,000		
ARKANSAS			
University of Arkansas (Little Rock & Fayetteville)			
Dinning (GPB-20B)	6,912	ACS	Leukemia, metabolism nucleic acids
Johnson (MOR-23)	5,000	ACS	Growth & morphology bacteria
Meschan (C-1866)	9,277	NCI	Isodose curves
Nettleship (ENV-1B)	5,000	ACS	Neoplastic growth, trauma, skin transplants
	26,189		
CALIFORNIA			
1. California Institute of Technology (Pasadena)			
Borsook (PR-17B)	7,500	ACS	Proteins, isotopes
Galston (CP-50A)	4,500	ACS	Catalase activity, plants
Niemann et al. (C-354 C4)	13,000	NCI	Tumor hemorrhagic agent
	25,000		

		Amount	Agency	Research Subjects
2.	University of California (Berkeley, Los Angeles & San Francisco)			
	Adelberg (MET-13A)	4,000	ACS	Bacterial mutants, sterols
	Bassett (CIE-6F)	Ext. time	ACS	Steroid hormones, metabolism
	Berg (MOR-14C)	Ext. time	ACS	Mytilus edulis
	Chaikoff (IS-6F)	8,000	ACS	Radioactive isotopes, cholesterol metabolism
	Chaikoff (C-879 C4)	24,823	NCI	
	Cohen (F-120B)	Fellow	ACS	Morphogenesis tobacco leaves
	Eakin & Berg (C-1554 C2)	2,754	NCI	Protein metabolism, amphibian embryo
	Eiler (C-448 C4)	6,843	NCI	Electro-enzyme chemistry
	Flickinger (MOR-20)	3,500	ACS	Isotopes, amphibian embryo, $C^{14}O_2$
	Greenberg (MET-12B)	6,000	ACS	Isotopes, amino acids
	Greenberg (DRIR-206A)	13,920	DRMF	
	Greenberg (C-327 C5)	8,500	NCI	
	Griffith (C-1669 C)	10,000	NCI	Beta-aminoisobutyric acid
	Hinton (CP-17E)	8,000	ACS	Chromosomes, diet, Drosophila
	Kirk (C-403 C5s)	300	NCI	Cytological chemistry,
	Kirk (C-403 C6)	14,526	NCI	Tissue culture
	Lawrence & Berlin (C-1440 C2)	13,679	NCI	Red blood cells
	Li (H-16A)	15,000	ACS	Hypophyseal hormone
	Madden & Zeldis (C-1983)	19,667	NCI	Protein, cells, nitrogen equilibrium
	Mazia (E-9G)	7,547	ACS	Enzyme chemistry, chromosomes
	Roberts (C-1408 C2)	17,863	NCI	Serum proteins
	Simpson (C-1098 C3)	10,000	NCI	Growth hormone
	Stanier (E-29D)	8,100	ACS	Enzymes
	Stumpf (MET-4C)	7,765	ACS	Metabolism, plants
	Tarver (MET-16A)	7,500	ACS	Protein metabolism, isotopes
	Williams (PH-3G)	8,964	ACS	Protein macromolecules
	Wood (INSTR-43E)	75,000	ACS	Follow-up, cases
		302,251		
3.	Cedars of Lebanon Hospital (Los Angeles)			
	Friedman (C-1789)	5,751	NCI	Masculinizing ovarian tumors
	Henstell (BCH-5A)	5,000	ACS	Desoxyribonuclease
		10,751		
4.	Donner Laboratory of Medical Physics (Berkeley)			
	Maisin (DRF-127A)	Fellow	DRMF	Radioiron
5.	Laboratory for Research on Treatment of Cancer (Boulder Creek)			
	Turner (C-957 C5)	4,900	NCI	Treatment
6.	Los Angeles County Hospital (Los Angeles)			
	Pearson (C-1830)	4,487	NCI	Frogs
	Pearson & Visser (C-962 C3)	12,500	NCI	Theiler's virus
		16,987		
7.	Mt. Zion Hospital (San Francisco)			
	Freedlander (CH-6A)	7,400	ACS	Chemotherapy
	Freedlander (DRIR-93B)	7,400	DRMF	
		14,800		
8.	Palo Alto Foundation (Palo Alto)			
	Salzberg (SG-14)	Scholar	ACS	Azo dye
9.	University of Redlands (Redlands)			
	Baez (PH-17)	3,700	ACS	X-ray
10.	Rees Stealy Clinical Research Foundation (San Diego)			
	Stimmel (EDC-10)	5,000	ACS	Excreta, estrogens
	Stimmel (C-759 C5)	5,000	NCI	
		10,000		

		Amount	Agency	Research Projects
11.	Santa Barbara Botanic Garden (Santa Barbara)			
	Walters (C-1513 C2)	6,370	NCI	Chromosomes, Bromus hybrids
12.	University of Southern California (Los Angeles)			
	Edmondson (C-1904)	4,428	NCI	Estrogens, liver
	Lobstein	2,000	EUPF	Related fields
	Macdonald (INSTR-66A)	24,109	ACS	Research coordinating plan
	Macdonald & Guiss (C-1862)	6,653	NCI	
	Rittenberg (N-19A)	2,376	ACS	Oxidative assimilation
	Starr (C-1214 C2)	14,310	NCI	Thyrotrophic hormone,
	Starr et al. (C-1868)	9,342	NCI	Thyroxin
		63,218		
13.	Stanford University (Stanford)			
	Cutting (DRIR-201A)	9,700	DRMF	Chemotherapy
	Danforth (C-1358 C2)	7,236	NCI	Mutagenic effects nitrogen mustards
	Giese (C-1799)	4,675	NCI	Ultraviolet radiation
	Ginzton & Kaplan (INSP-65A)	24,915	ACS	Radiation therapy
	Griffin (PR-15C)	4,698	ACS	Nucleoproteins
	Griffin (DRIR-237)	8,035	DRMF	Pituitary factors
	Griffin (C-1145 C3)	4,914	NCI	Nitrogen mustards
	Kaplan (#107)	12,800	JCC	Lymphoid tumor
	Kirkman (EDC-5)	5,184	ACS	Hormone induced fibromas
	Kirkman (C-1579 C)	3,000	NCI	
	Kirkpatrick (PH-15A)	9,000	ACS	X-ray microscopy
	Loring (PR-12D)	8,500	ACS	Nucleic acid
	Luck (BCH-8A)	5,000	ACS	Histones, proteins
	Luck (C-484 C5)	24,946	NCI	
	Tatum (#86)	5,000	JCC	Induced mutations
	Tatum & Barratt (EG-27E)	4,860	ACS	Neurospora
	Twitty (CP-13F)	8,000	ACS	Pigment cells
	Waxler (C-1518 C)	7,668	NCI	Obesity, gold thioglucose
		158,131		
	COLORADO			
	University of Colorado (Denver)			
	Darley (INSTR-55C)	25,000	ACS	Cellular biology,
	Darley (DRIR-155B)	7,800	DRMF	endocrinology
	Fink (CP-39C)	3,024	ACS	Tissue autoantigens & autoantibodies
	Herrmann (#102)	6,500	JCC	Radioactive tracers, muscle tissue
	Scharrer (CP-1F)	8,640	ACS	Neuro-endocrine factors
		50,964		
	CONNECTICUT			
1.	Connecticut College (New London)			
	Christiansen (CP-48A)	6,000	ACS	Cell metabolism, growth, division
2.	University of Connecticut (Storrs)			
	Friedland (PH-14A)	Ext. time	ACS	Mass spectrometer & steroids
	Kind (BCH-14)	4,000	ACS	Phosphoprotein phosphatase
	Landauer (EG-7F)	4,500	ACS	Physiology of phenocopies
		8,500		
3.	Wesleyan University (Middletown)			
	Cochrane (MET-18)	2,000	ACS	Pentose metabolism in microorganisms

		Amount	Agency	Research Subjects
5.	Yale University (New Haven)			
	Albrink (MOR-21)	6,000	ACS	Animal & in vitro transplantation
	Banfield et al. (C-1886)	28,091	NCI	Electron microscopy of tissues
	Bonner (BO-12H)	5,400	ACS	Genetic control, enzyme specificity
	Bunting (C-383 C5)	10,098	NCI	Histochemistry
	Busch (#110)	9,000	JCC	Metabolism, in vivo
	Duran-Reynals (V-8G)	10,000	ACS	Virus infection
	Duran-Reynals (#20)	16,500	JCC	
	Duran-Reynals (C-997 C4)	18,306	NCI	
	Fruton (E-14G)	9,400	ACS	Peptide bonds, proteinases
	Gardner (#13)	6,800	JCC	Hormonal imbalances
	Gaylord (#112)	5,000	JCC	Virus development
	Greene (CP-11F)	12,500	ACS	Tissues
	Greene (#43)	25,464	JCC	
	Greene (C-918 C4)	12,000	NCI	
	Hakala (#61-33)	3,800	JCC	Nucleic acids
	Lippard (INSTR-47E)	50,000	ACS	Experimental & clinical
	Nichol (SG-8)	Scholar	ACS	Folic acid
	Nicholas & Boell (MOR-9E)	9,000	ACS	Embroyos
	Parfentjev (C-1201 C3)	13,524	NCI	Immunochemical differences in sera
	Setlow (PH-20)	8,251	ACS	Spectra biological compounds
	Sokal (V-5)	6,000	ACS	Heterologous transplants
	Srere (#61-31)	4,000	JCC	Cholesterol in liver
	Strong (EG-38A)	5,000	ACS	Methylcholanthrene,
	Strong (C-932 C4)	10,303	NCI	Gastric lesions
	Trentin (#97)	2,000	JCC	Mammary gland,
	Trentin (C-1491 C2)	3,872	NCI	Lactation
	Van Eck (C-1656 C)	9,000	NCI	X-ray, ovary
	Van Eck (C-1656 Cs)	3,500	NCI	
	Vogel (DRF-109A)	Fellow	DRMF	Enzymatic adaptation
	Wagner (C-1998)	8,000	NCI	Virus multiplication
	Welch (CH-7A)	28,000	ACS	Pyrimidines
	Welch (DRIR-248)	10,750	DRMF	
	Winternitz (#113)	12,000	JCC	Metabolism, transplants
		361,559		
DELAWARE				
	University of Delaware (Newark)			
	Feeny (INSTR-34D)	Ext. time	ACS	Cathode rays, living cells
DISTRICT OF COLUMBIA				
1.	George Washington University			
	Corrman (C-1234 C2)	3,793	NCI	Proliferation, antibiotics
	Corrman (C-1939)	5,377	NCI	
	Klopp (INSTR-24F)	25,000	ACS	Clinical & research
	Kok (BAF-23)	Fellow	ACS	Reticulosis
	Smith (C-308 C6)	10,584	NCI	Control substances
	Smith & Alpert (DRIR-42C)	10,000	DRMF	Radioisotopes
		54,754		

	Amount	Agency	Research Subjects
2. Georgetown University			
Sullivan (C-1340 C3)	4,887	NCI	Tryptophan-kynurenine metabolism
3. Howard University			
Marshall (C-1420 C2)	4,000	NCI	Krebs tricarboxylic acid cycle
McKinney (C-1676 C)	7,000	NCI	Tissue cultures
Newman (DRIR-111B)	5,400	DRMF	Amino acids
Newman & Marshall (C-1874 R)	11,674	NCI	Embryogenesis, tricarboxylic acid cycle
	28,074		
4. National Academy of Sciences			
Committee on Growth (INSTR-12H)	108,756	ACS	Operating budget
Grady (INST-6G)	2,520	ACS	
Heumann (CBC-1H)	15,000	ACS	Preparation educational material
Heumann (C-366 C5)	27,000	NCI	Chemical-biological correlation
Lucké (INST-27E)	14,175	ACS	
Lucké (#96)	1,000	JCC	Asst. Atlas of Tumor
Wason (INSP-75)	28,900	ACS	Pathology
Weiss (INST-12A)	1,000	ACS	Budget, Comm. C. Diagnosis & Therapy
Winternitz (DRIR-80B)	2,500	DRMF	Comm. Animal resources
	203,581		Diagnosis & therapy
FLORIDA			
1. Dade County Cancer Institute (Miami)			
Grand (DRIR-216A)	7,800	DRMF	Antibiotics & chemotherapeutic agents
Hopman (C-1703 C)	9,936	NCI	Biopsy cytology
	17,736		
2. Florida Southern College (Lakeland)			
Sokoloff (DRIR-156B)	2,800	DRMF	Ascorbic acid
3. Florida State University (Tallahassee)			
Metz (CP-44B)	3,888	ACS	Fertilization
4. University of Florida (Gainesville)			
Ray (CH-14)	11,550	ACS	Therapeutic compounds
Ray (DRIR-33C)	17,500	DRMF	Radioactive derivatives
Ray (C-1066 C3)	12,000	NCI	Acetylamino-fluorene
Ray (C-1308 C2)	5,000	NCI	Radioactive sulfur compounds
Ray (C-1356 C2)	7,900	NCI	
	53,950		
5. University of Miami (Coral Gables)			
Dunning (CP-6F)	Ext. time	ACS	Cysticercus fasciolaris
Dunning (N-15A)	4,000	ACS	Nucleic acid diet
Dunning (C-1861)	7,020	NCI	Immunity
Dunning (C-1864)	2,700	NCI	
Paff (C-2007)	9,000	NCI	Living mast cell
	22,900		
GEORGIA			
1. Emory University (Emory University)			
Foraker (C-1486 C2)	7,000	NCI	Exfoliative cytology
Russell & Wilhelmi (EEP-6G)	6,750	ACS	Nitrogen
	13,750		
2. Oglethorpe University (Oglethorpe)			
Cohen (CP-36C)	3,670	ACS	Protoplasmic organization

	Amount	Agency	Research Subjects
IDAHO			
University of Idaho (Moscow)			
Beck (C-1802)	6,284	NCI	Clostridium acidi urici
ILLINOIS			
1. Cancer Research Inc. (Chicago)			
"Cancer Research" (#36)	3,000	JCC	Support, Jour. Cancer Research
2. Carle Foundation (Urbana)			
Quastler (C-302 C5)	6,480	NCI	Med. application, betatron
3. Chicago Medical School (Chicago)			
Davidsohn (C-1113 C3)	14,148	NCI	Antibodies
Elias & Popper (C-1961)	5,810	NCI	Liver
Shubik (DRIR-261)	4,860	DRMF	Cortisone
	24,818		
4. University of Chicago (Chicago)			
Coggeshall (INSTR-14F)	165,000	ACS	Adrenalectomy patients, antigens,
Coggeshall (DRIR-234)	28,000	DRMF	Radioisotypes
DeBruyn (R-9D)	6,588	ACS	Selective radiation
Doyle (E-26D)	5,076	ACS	Enzymatic histochemistry
Geiling (C-1652 C)	5,562	NCI	Radioactive colchicine
Harary (F-143A)	Fellow	ACS	Amino acids
Huggins (CBC-3E)	55,000	ACS	Chemotherapy
Huggins (DRIR-2C)	12,000	DRMF	Hormonal control
Huggins (#105)	24,700	JCC	Steroid hormones, pituitary principles
Kenyon et al. (CIE-2G)	9,871	ACS	Tissue & leukemia & ACTH
Pierce (CPB-21A)	4,000	ACS	and/or aminopterin
Pierce (C-1300 C4)	7,500	NCI	Proteins, multiple myeloma
Putnam (C-1331 C2)	7,080	NCI	Brain & beta ray
Rasmussen (C-1565 C)	8,000	NCI	Gastrointestinal tract
Rubin (DRF-102s)	Fellow	DRMF	Proteins & nucleic acids
Swift (C-1612 C)	2,500	NCI	Triphosphopyridine nucleotide
Vennesland (E-34C)	7,500	ACS	Morphogenesis
Weiss (MOR-10E)	20,000	ACS	Metabolism, sodium & potassium
Williams-Ashman (SG-10)	Scholar	ACS	tissue content
	367,747		
5. Illinois Institute of Technology (Chicago)			
Danforth (MET-19)	1,500	ACS	Oxidative metabolism in Euglena
6. University of Illinois (Chicago)			
Black (BO-1F)	14,250	ACS	Plant tumors & virus
Burstone (C-1373 C2)	5,600	NCI	Oral epithelium & radioactivity
Catchpole (EEP-12D)	6,000	ACS	Reproductive organs & hormones
Grant (C-1110 C3)	3,800	NCI	Gastric mucosa
Harvey & Bennett (C-854 C3)	7,452	NCI	Betatron electron & bone, cartilage
Kirschbaum (BI-10D)	4,725	ACS	Leukemia therapy
Kirschbaum (C-1543 Cs)	406	NCI	Adrenal cortical secretion
Kirschbaum (C-1969)	9,936	NCI	Mammary glands

		Amount	Agency	Research Projects
	University of Illinois (Cont'd)			
	Kummerow (CH-12)	2,000	ACS	P-dimethylaminoazobenzene
	Luria (V-3G)	24,450	ACS	Virus growth & structure
	Nance (CP-43B)	3,780	ACS	Indole-3-acetic acid & pyruvate
	Odell (CS-15A)	Ext. time	ACS	Gynecologic cancer
	Plummer (C-1986)	6,804	NCI	Tissue cultures & amelanotic melanomas
	Spiegelman (C-1094 C3)	9,900	NCI	Intracellular enzymes
	Vestling (C-1856)	9,965	NCI	Liver enzymes
	Winzler (PR-14C)	Ext. time	ACS	Plasma mucoprotein
	Winzler (C-1828)	12,000	NCI	Amino acids
		121,068		
7.	Loyola University (Chicago)			
	Melchior (H-9B)	5,000	ACS	Enzyme systems in pituitary gland
8.	Michael Reese Hospital (Chicago)			
	Schwarz (DRF-120A)	Fellow	DRMF	Metastasis urinary bladder, prostate
	Tannenbaum (DRIR-250)	13,500	DRIR	Nutrition
	Tannenbaum (C-248 C7)	12,000	NCI	
		25,500		
9.	Northwestern University (Chicago & Evanston)			
	Preston & Schrek (VI-4)	1,800	ACS	Immunity to transplants
	Wartman (C-1005 C3)	15,000	NCI	Pathological lesions
	Fogelson	1,000	EUPF	Enzymes & related chemicals
		17,800		
10.	Southern Illinois University (Carbondale)			
	Lindegren (C-1179 C3)	5,000	NCI	Enzymes, yeasts
	Lindegren & Sheffner (N-17A)	8,000	ACS	Amino acids & polypeptides & proteins
		13,000		
	INDIANA			
1.	Indiana University Foundation Research Division (Bloomington)			
	Campaigne (C-1948)	8,240	NCI	Naphthobenzthiophene series
	Haurowitz (PR-19B)	6,000	ACS	Protein-protein interaction
	Lawrence (CS-11B)	Ext. time	ACS	Venous pathways, bone, transplants
	Muller (EG-9G)	12,000	ACS	Mutations in Drosophila
	Muller (C-382 C5)	9,500	NCI	Lymphomas & leukemia
	Smith (C-1602 C)	7,961	NCI	Heredity in Paramecium
	Sonneborn (EG-31C)	8,187	ACS	
		51,888		
2.	University of Notre Dame (Notre Dame)			
	Campbell (CH-3C)	2,500	ACS	Unsaturated lactones
	Reyniers (DRIR-48C)	20,500	DRMF	Germ-free life
		23,000		
3.	Purdue University (Lafayette)			
	Benzer (VI-1)	4,300	ACS	Bacteria, ultraviolet radiation
	Garner (SG-3)	Scholar	ACS	Microorganisms, mutagenesis
		4,300		
	IOWA			
1.	Iowa State College (Ames)			
	Dahm (CP-49A)	3,600	ACS	Autoradiographic study, insects
	Sinsheimer (PH-19)	2,570	ACS	Nucleotides
		6,170		

	Amount	Agency	Research Projects
2. State University of Iowa (Iowa City)			
Nelson (INSTR-77)	10,000	ACS	Cellular physiology
Winnick (CP-60)	4,000	ACS	Tissue cultures and
Winnick (C-1765)	6,480	NCI	Protein & nucleic acid
Witschi (MOR-11E)	Ext. time	ACS	Embryonic differentiation &
	26,650		Delayed fertilization
KANSAS			
1. Kansas State College (Manhattan)			
Burkhard (PR-18B)	1,500	ACS	Protein-dye complexes
Burkhard (C-1763)	2,330	NCI	Sulfur containing azo dyes
	3,830		
2. University of Kansas (Kansas City & Lawrence)			
Bly (SG-1)	Scholar	ACS	Radioisotypes, liver tissue &
Bly (C-1916)	9,774	NCI	hepatomas
Edelhoch (C-1974)	7,106	NCI	Macromolecular interactions
Frenkel (CH-8)	6,243	ACS	'Ascites tumors'
Stahl (C-1987)	13,176	NCI	Vacuum ultraviolet microspectrophotometry
Stowell (INSTR-60B)	25,000	ACS	Blood, urine & tissue changes
Stowell (DRIR-36B)	10,000	DRMF	
Werder & Hardin (C-1827)	9,869	NCI	Immunity and transplants
	81,168		
3. St. Margaret's Hospital (Kansas City)			
Laing (DRIR-81B)	4,000	DRMF	Clinical research
KENTUCKY			
1. University of Louisville (Louisville)			
Berg (DRIR-160B)	6,700	DRMF	Radioisotopes
Hall (MOR-12D)	Ext. time	ACS	Embryology, nervous system
Kerman & Roseman (DRIR-240)	16,000	DRMF	Radioisotope procedures, brain
Rogers (DRIR-249)	7,000	DRMF	Tumor growth rate-susceptibility
Rogers (C-1590 C)	6,000	NCI	
Wiley (DRIR-213A)	5,800	DRMF	2-Pyrones & unsaturated lactones
	41,500		
2. Ursuline College (Louisville)			
Siebert (DRIR-88B)	2,000	DRMF	Enzyme proteins
LOUISIANA			
1. Alton Ochsner Medical Foundation (New Orleans)			
Horwitt & Segaloff (EDC-4)	8,478	ACS	Biosynthesis of steroids
2. Louisiana State University (Baton Rouge)			
Kehr (EC-37A)	4,000	ACS	Genetic tumors, plants
Kehr (C-1674 C)	3,700	NCI	
	7,700		

	Amount	Agency	Research Projects
3. Tulane University (New Orleans)			
Baillif (C-1563 C)	6,000	NCI	Radioactive colloids, reticuloendothelium
Carrera (F-140A)	Fellow	ACS	Nucleases & nucleic acid metabolism
Collins (C-1818)	2,630	NCI	Venerealgranulomatous lesions
Farber (SG-2)	Scholar	ACS	Chemical pathology
Krementz (C-1985)	2,166	NCI	Needle biopsy
Kurnick (BCH-7A)	6,500	ACS	Desoxyribonuclease-deso. inhibitor-anti in.sys.
Randolph (PH-18)	3,240	ACS	Ultracentrifuge rotor
Segaloff (INSTR-39E)	60,000	ACS	Hormones
	80,536		
MAINE			
Roscoe B. Jackson Memorial Laboratory (Bar Harbor)			
Borges (EG-35A)	8,420	ACS	Gene action
Dickie (V-17B)	3,056	ACS	Tissues & mammary gland
Dickie & Woolley (EG-34B)	7,500	ACS	Inherited & physio. factors, susceptibility
Fekete (EG-32B)	5,000	ACS	Uterine environment
Griffen (C-1912)	10,908	NCI	Cytogenetics, cells
Hummel (V-18B)	6,292	ACS	Mammary-tumor-milk agent
Kaliss (CP-40C)	Ext. time	ACS	Lyophilized tissues, homiotransplants,
Kaliss (MOR-24)	7,500	ACS	Homiografts, tissue antigens &
Kaliss (C-1594 C)	7,500	NCI	Anti-serums
Kaliss (C-1594 C2)	15,228	NCI	
Little (INSTR-70A)	10,000	ACS	Ovaries, spleen transplants,
Little (H-3C)	6,480	ACS	Mutation, mammary inciter
Little	5,000	EUPF	
Little et al. (#35)	6,500	JCC	
Murray (EG-33B)	5,000	ACS	Inbred stocks
Runner (H-11B)	7,290	ACS	Inherited hormonal activity
Runner (C-362 C4)	30,890	NCI	Mammary gland
Russell (EG-12G)	4,500	ACS	Lethal etc.genes, growth, ovaries
Sawin (EG-1G)	5,047	ACS	Growth, known genetic consti., rabbits
Sawin (C-281 C5)	14,283	NCI	
Snell (EG-14G)	5,940	ACS	Somatic & germinal mutations
Snell & Day (CP-7F)	7,000	ACS	Antigens, resistence, transplants
Speirs & Fuller (C-1895)	12,960	NCI	Eosinophil cell, adrenal & pituitary
White (CP-47B)	3,000	ACS	Plants
White (CP-47Bs)	2,400	ACS	
White (CP-59)	9,072	ACS	
Woolley (H-12B)	4,000	ACS	Endocrine balance
	210,766		
MARYLAND			
1. Johns Hopkins University (Baltimore)			
Baetjer (C-603 C5)	14,999	NCI	Hexavalent chromate dust
Borysko (DRF-99A)	Fellow	DRMF	Cells, electron microscope
Colowick & Kaplan (MET-5C)	11,000	ACS	Phosphorus compound, respiration
Friedenwald (MOR-22)	6,500	ACS	Corneal epithelium
Gey (PH-13B)	Ext. time	ACS	Adv. physical methods
Grayhack (DRF-104A)	Fellow	DRMF	Prostatic growth
Hellerman (C-392 C6)	16,500	NCI	Chemical processes & metabolism
Kern (F-173)	Fellow	ACS	Propionibacterium
Levine (F-148A)	Fellow	ACS	Biochemical & genetic - paramecium aurelia
Lo (DRF-100A)	Fellow	DRMF	Virus
McElroy (C-377 C5)	4,212	NCI	Drug action, mutations

	Amount	Agency	Research Projects
Johns Hopkins University (Cont'd)			
Morgan (C-393 C6)	14,678	NCI	X-ray fluoroscopic screens
Richter (CS-8D)	Ext. time	ACS	Electrical skin resistance method
Rosenfeld (C-6G)	Ext. time	ACS	Growth promoting principle,
Rosenfeld (C-1841)	4,000	NCI	Embyronic tissue
Rupert (F-137A)	Fellow	ACS	Infrared microspectroscopy, living cells
Scott (EDC-1)	7,500	ACS	Prostatic growth & pituitary gland
Scott (INSTR-45D)	20,000	ACS	
TeLinde & Scott (CPF-3E)	Ext. time	ACS	Experimental endometriosis
Weber (F-183)	Fellow	ACS	Genus clostridium, enzymatic mechanisms
Wilkins (CIE-12E)	13,839	ACS	Hormones, adrenal, gonads & growth
	113,228		
2. University of Maryland (Baltimore)			
Figge (C-845 C4)	9,216	NCI	Melanomas, Mexican axolotls & hybrids
Herbst (C-1965)	3,000	NCI	Putrescine,propanediamine,spermine,etc.-liver
McCafferty (C-1759)	324	NCI	Fetal mouse growth & beta radiation
	12,540		
3. National Cancer Institute (Bethesda)			
Korn (DRF-105A)	Fellow	DRMF	Protein synthesis
MASSACHUSETTS			
1. Amherst College (Amherst)			
Kidder (N-2F)	7,000	ACS	Nutrition, growth & proliferation & survival
2. Boston Dispensary (Boston)			
Steckerl & Schmidt (C-1589 C)	6,150	NCI	Cell ribonucleases, ascites (Ehrlich)
Thannhauser & Schmidt (BCH-18)	6,500	ACS	Phosphoric acid diesters metabolism
	12,650		Nucleic acids binding
3. Boston University (Boston)			
Gensler (CBC-6D)	Ext. time	ACS	Podophyllotoxin & picropodophyllin
Gensler (CH-10)	6,553	ACS	& related compounds
Keefer (INSTR-67A)	18,300	ACS	Tissues & growth activity
Lemon (H-7B)	11,341	ACS	Metabolism, testosterone, human tissues
Lemon (C-1643 C)	5,294	NCI	Anal.meth. 11-ketosteroid content, urine
Lemon & Walker (C-930 C4)	14,500	NCI	Analysis, cellular proteins, origin
Lutz (C-1287 C2)	6,500	NCI	Vascularization neoplasms, cheek
Lutz (C-1644 C)	12,000	NCI	pouch, hamster
Taymor (C-1619 C)	4,000	NCI	Irradiation,P32, DNA, human cervix
	78,488		
4. Children's Cancer Research Foundation (Boston)			
Foley & Farber (C-1921)	8,985	NCI	Dihydrotriazines
Landing (C-1975)	5,400	NCI	Histochemical-endocrine,metabolic & neo-
	14,385		plastic diseases of children
5. Children's Medical Center (Boston)			
Farber (C-937 C4)	40,000	NCI	Chemotherapy
Ingrahm (C-1608 C)	6,000	NCI	Central nervous system & gamma radiation
Miller (C-1691 C)	13,500	NCI	Mechanism, carcinolytic agents
	59,500		

	Amount	Agency	Research Subjects
6. Harvard University (Boston & Cambridge)			
Albright (EDC-2)	9,072	ACS	Metabolic interrelations
Albright (C-1887)	15,056	NCI	
Aub (C-4G)	13,000	ACS	Chemical variants &
Aub (INSTR-44E)	100,000	ACS	Cell mitosis
Aub & Nathanson (C-1393 C2)	25,500	NCI	Pituitary, steroid hormones & growth
Cohn (INSP-59B) (deceased)	7,000	ACS	Partial Support U.Lab.Phys.Chem.,Med.& Pub.Heal.
Eaton (C-1657 C)	16,464	NCI	Tissue proliferation & virus growth
Folch-Pi (BCH-11)	7,000	ACS	Brain strandin
Frazier (DRIR-182B)	10,000	DRMF	Paraohenylenediamine & living cells
Griesemer (F-104B)	Fellow	ACS	Respiratory enzymes of epidermis
Hertig (C-1611 C)	2,716	NCI	Cervix, pathogenesis, morphology
Hoagland (SG-12)	Scholar	ACS	Protein synthesis in neoplastic tissues
Ladman (F-147A)	Fellow	ACS	Anterior pituitary gland-histochemical
Munson (EDC-7)	8,814	ACS	Pharmacology of parathyroid
Seligman (C-312 C7)	30,000	NCI	Chemotherapy
Schilling (DRF-94A)	Fellow	DRMF	Metabolism & endocrine activity
Stare & Geyer (C-722 C5)	15,000	NCI	Fat emulsion
Straus (F-182)	Fellow	ACS	Pigment formation & growth of maize endosperm
Thimann (BO-6G)	6,079	ACS	Plant growth
Wetmore & Thimann (BO-16E)	4,500	ACS	Conducting system in vascular plants
Wright (BAF-22)	Fellow	ACS	Lymphoid tissue
Zamecheck & Vitale (C-1323 C3)	15,000	NCI	Gastrointestinal tract pathology
	285,201		Nutrition
7. Marine Biological Laboratory (Woods Hole)			
Armstrong (R-7E)	1,600	ACS	Radiobiology
Armstrong (R-7Es)	5,000	ACS	
	6,600		
8. Massachusetts Eye and Ear Infirmary (Boston)			
Balazs (C-1685 C)	8,500	NCI	Acid mucopolysaccharides & tissue growth
9. Massachusetts General Hospital (Boston)			
Aub (C-558 C5)	17,712	NCI	Chemotherapeutic & phys.agents & cytochemistry
Aub et al. (H-15A)	10,000	ACS	Urinary steriods
Castleman (C-1973)	7,341	NCI	Testes, spermatogenesis
Churchill (INSTR-16F)	120,000	ACS	Basic science & clinical investigations
Churchill (DRIR-187A)	53,700	DRMF	
Colby (C-1649 C)	12,080	NCI	Bladder, cervix
Jones (F-189)	Fellow	ACS	Adenosine triphosphate-coenzyme A-acetate reaction
Lipmann (C-823 C4)	21,583	NCI	Biosynthetic mechanisms
Moldawer (F-150A)	Fellow	ACS	Metabolism & growth
Morgan (C-22)	44,558	ACS	Golgi substance,pancreas homogenates
Nathanson & Engel (#106)	16,760	JCC	Urinary steroid metabolites
Scott (BCH-17)	6,500	ACS	Spectroscopic investigation,molecular inter-
Scott (SG-5)	Scholar	ACS	action, growth
Sweet	23,100	AEC	Isotopes, brain, neurosurgical relief of pain,
Sweet (DRIR-161A)	8,750	DRMF	Dev. stereotactic methods
Zamecnik & Aub (E-16E)	6,000	ACS	Protein metabolism
	308,084		
10. Massachusetts Institute of Technology (Cambridge)			
Bear (C-18B)	7,560	ACS	X-ray diffraction connective tissue
Buchanan (DRIR-239)	11,000	DRMF	Enzyme systems
Fitzgerald (F-102B)	Fellow	ACS	Protein fiber formation
Remy (F-136A)	Fellow	ACS	Biosynthesis of nucleotides
Rothstein (DRF-145)	Fellow	DRMF	Osilated nerve proteins
Spiro (DRF-123A)	Fellow	DRMF	Ultrastructure of mitochondria
	18,560		

		Amount	Agency	Research Subjects
11.	University of Massachusetts (Amherst)			
	Woodside (C-1661 C)	8,375	NCI	Chemotherapy
12.	New England Center Hospital (Boston)			
	Alisangco (DRF-147)	Fellow	DRMF	Serum proteins of patients, leukemia, etc.
	Dameshek (GPB-16C)	6,696	ACS	Hemolytic antibodies & leukemia, etc., hemolytic anemia
	Desai (DRF-135)	Fellow	DRMF	White cell antibodies & leukemia
	Kumninos (DRF-97A)	Fellow	DRMF	Immunohemolytic anemia & leukosarcoma
	Patterson (F-180)	Fellow	ACS	Cell growth & host resistence
	Pratt (CS-16A)	4,752	ACS	Pancreas, urinary enzymes
		11,448		
13..	New England Deaconess Hospital (Boston)			
	Gates (C-1844)	8,573	NCI	Intercellular substances tumor stroma
	Hicks (C-1042 C3)	9,774	NCI	Tissue metabolism nervous system
	Sommers (C-1936)	6,674	NCI	Human cancer growth, hamster
	Warren (INSP-74)	10,000	ACS	Expenses, Polaroid Color Transplanting Untraviolet Microscope-Dr. Ruth Graham,etc.
		35,021		
14.	Peter Bent Brigham Hospital (Boston)			
	Goetz (DRF-73A)	Fellow	DRMF	Adrenalectomy & prostate, hyperinsulinism
	Haydar (DRF-144)	Fellow	DRMF	Adrenal steroid metabolism
	Sturgis (H-17A)	4,816	ACS	Steroid hormones & endometrial nucleic acids
		4,816		
15.	Scientific Specialties Corporation (Boston)			
	"Microscopes" (INSP-73)	75,000	ACS	Purchase, color translating
	"Microscopes" (DRIR-252)	10,000	DRMF	ultraviolet microscope
		85,000		
16.	Thorndike Memorial Laboratory (Boston)			
	Freinkel (F-168)	Fellow	ACS	Tissue iodide accumulation
17.	Tufts College (Medford & Boston)			
	Bernfeld (C-1680 C)	6,000	NCI	Plasma proteins, micro-electrophoresis
	Bonner (C-1958)	4,762	NCI	Glucuronic acid metabolism, humans
	Christensen (C-1268 C2)	16,330	NCI	Amino acid assimilation & cells
	Davidson (F-191)	Fellow	ACS	Phosphoproteins, prostatic acid phosphatase
	Fishman (C-915 C4)	10,000	NCI	B-glucuronidase & growth
	Fishman (C-915 C5)	10,000	NCI	Biochem.stud. prostatic acid
	Fishman (C-1964)	5,000	NCI	Phosphatase
	Fishman & Bernfeld (E-39B)	4,800	ACS	Purified B-glucuronidase
	Homburger (INSTR-31F)	50,000	ACS	Enzymatic synthesis glucuronidase
	Homburger (DRIR-43C)	9,401	DRMF	Plasma proteins, mice
	Kasdon (C-1978)	6,856	NCI	Vaginal beta-glucuronidase
	Shen (CPB-15D)	Ext. time	ACS	Anemia
		123,149		
18.	Vincent Memorial Hospital (Boston)			
	Graham (C-1810)	11,053	NCI	Radiation & sensitization response-SR
19.	Wellesley College (Wellesley)			
	Jones (C-821 C5)	5,956	NCI	Mammary glands, mice Tests on paramecia
20.	Worcester Fdn. for Experimental Biology (Shrewsbury)			
	Pincus (EDC-8)	10,933	ACS	Biogenesis androgens & estrogens
	Pincus (INSTR-63B)	18,600	ACS	Steroid metabolism
	Pincus (DRIR-6JC)	10,700	DRMF	
		40,233		

	Amount	Agency	Research Subjects
MICHIGAN			
1. Detroit Institute of Cancer Research (Detroit)			
Albert & Johnson (BCH-1A)	5,000	ACS	Chromosomes, phosphorus meta. & endocrine organs
Guthrie (C-1872 R)	7,859	NCI	Ovarian cells
Johnson & Albert (C-928 C4)	8,125	NCI	Cells, phosphoprotein, mammalian tissues
Johnson & Albert (C-1692 R)	4,300	NCI	
Raut	35,739	EUPF	Chemotherapy
Simpson & Scott (INSTR-17F)	50,000	ACS	Integrated stud., clin. & exper.
	111,023		
2. Michigan State College (East Lansing)			
Tukey & Lucas (CH-17)	8,000	ACS	Assay, substances, cell behavior
3. University of Michigan (Ann Arbor)			
Bauer (C-1719 R)	7,425	NCI	Tumor glutathione
Bethell (C-1994)	11,381	NCI	Labile methyl, leukemic, non-l., & pteroylglutamic acid
Furstenberg (INSTR-69A)	15,000	ACS	Nature, detection, cure
Hodges	3,000	EUPF	Clinical records
Miller et al. (C-1896)	5,000	NCI	Estrogen
Sussman (MET-11B)	2,160	ACS	Ascospores of neurospora
Sutherland (C-1559 C2)	7,000	NCI	Infrared spectroscopy & protein molecules
Vial (C-1835)	14,110	NCI	Antibody-isotope complex, human
	65,076		
4. Siena Heights College (Adrian)			
Stimson (PH-12B)	1,188	ACS	Ultraviolet absorption & nucleic acid deriv.
5. Wayne University (Detroit)			
Djerassi (EDC-3)	6,782	ACS	Isomers, analogs steroid hormones
MINNESOTA			
1. Concordia College (Moorehead)			
Werth (C-1606 C)	216	NCI	Benzo(c)phenanthrene & derivatives
2. University of Minnesota (Minneapolis)			
Barnum (V-5G)	6,000	ACS	Mammary glands, mice
Bittner (EG-17G)	5,000	ACS	Mammary cancer & genetics
Bittner (EG-18G)	10,000	ACS	Tumor milk agent
Bittner	20,000	EUPF	
Cohen (C-1330 C2)	10,495	NCI	Steroidal conjugation mechanisms
Diehl (INSTR-49D)	75,000	ACS	Insti. research, U. Minn.
Gutman (MET-21)	4,000	ACS	Carcinogenic amines & metabolism
Hitchcock (C-298 C7)	15,000	NCI	Gastric cancer, methylcholanthrene
Hitchcock (C-1218 C2)	3,980	NCI	induction, stomach
Kolthoff (C-721 C4)	15,660	NCI	Metal ions & sulfhydryl compounds
Kolthoff (C-721 C5)	15,000	NCI	Blood sera
Reed (EG-24E)	6,925	ACS	Genetics, breast, human
Syverton (V-6G)	4,800	ACS	Host cell & virus, immunization
Syverton (C-725 C4)	15,000	NCI	leukemia & mammary - mice
Wangensteen (DRIR-99B)	15,000	DRMF	"Second-Look" operations
Wild (C-1244 C2)	21,616	NCI	Ultrasonic pulses & tissue density changes
Zimmerman (SG-17)	Scholar	ACS	Endocrine physiology & metabolic balance
	243,476		
MISSOURI			
1. Midwest Research Institute (Kansas City)			
Goodson (C-802 C4)	31,270	NCI	Animal assay for treatment
Goodson (C-1816)	3,051	NCI	

	Amount	Agency	Research Subjects
2. University of Missouri (Columbia)			
Faberge (C-990 C4)	1,725	NCI	Genetic mutations & ultraviolet radiation
Novitski (C-1578 C2)	9,167	NCI	Chromosomes
Shaver (C-1989)	5,147	NCI	Cleavage in frog egg
	16,039		
3. St. Louis University (St. Louis)			
Bauer (DRIR-189A)	9,000	DRMF	Rapid freezing, virus & non-virus
Luyet (CP-53A)	5,075	ACS	Cell survival & frozen tissue
Luyet (#103)	3,500	JCC	Red cells, frozen blood & ice formation
Seibert (DRF-121)	Fellow	DRMF	Steroid metabolism & enzymatic activity
	17,575		
4. Washington University (St. Louis)			
Allen	9,000	AEC	Gamma ray therapeutic agent
Berg (F-158A)	Fellow	ACS	Enzymes & phosphate di-ester bond
Commoner (V-9D)	6,561	ACS	*Reduplication tobacco mosaic virus, growth processes
Graham (DRIR-251)	12,700	DRMF	*Tobacco smoking & lung cancer
Gutsche (CH-11)	6,966	ACS	Colchicine & related compounds
Hamburger & Levi-Montalcini (C-1801)	13,100	NCI	Sarcomas(mice)& nervous system chick embryo
Lowry (C-11E)	13,895	ACS	Cytochemistry nervous system
Cori (INSTR-32F)	60,000	ACS	Growth
Roberts (C-1245 C2)	13,000	NCI	Free amino acids, peptides & nitrogen meta. tissues
Silberberg & Silberberg (EDC-9)	4,000	ACS	Hormones, mice
Velick (E-25D)	7,100	ACS	Enzymes
Weiss (DRF-92A)	Fellow	DRMF	Orcein, elastin reaction
	146,322		
MONTANA			
Montana State University (Missoula)			
Loran (DRIR-192A)	5,300	DRMF	Oncolytic effect NDBS fraction podophyllin on tumor tissue
NEW HAMPSHIRE			
Dartmouth College (Hanover)			
Tyson (DRIR-253)	7,000	DRMF	Pulmonary function radiation fibrosis
NEW JERSEY			
1. Princeton University (Princeton)			
Bonner (MOR-16C)	1,000	ACS	Cell differentiation amoeboid slime molds
Fankhauser (MOR-15C)	4,500	ACS	Dev., grow., & fertility polyploid salamanders
Jacobs (BO-18D)	2,160	ACS	Cell differentiation vascular plants
	7,660		
2. Rutgers University (New Brunswick)			
Allison (INSTR-51D)	17,812	ACS	Tissue equilibrium & metabolic interrelations
Allison & Leathem (CP-23E)	8,856	ACS	Experimental production tumors
Crossley (CH-5A)	6,000	ACS	Chemotherapy
Leathem (EDC-6)	6,156	ACS	Abnormal ovarian growth
	38,824		
NEW MEXICO			
1. Univeristy of New Mexico (Albuquerque)			
Daub (C-1595 C)	3,672	NCI	1-methyl, 7-meth., 8-meth. & 10-methyl-3, 4-benzpyrene

	Amount	Agency	Research Subjects
2. Highlands University (Las Vegas)			
Robins (DRIR-260)	4,800	DRMF	Imidazo(c)pyridines, potential purine antagonists
NEW YORK CITY			
1. American Museum of Natural History			
Breder (DRIR-39D)	10,000	DRMF	Environmental & endocrine control
Breder (DRIR-39E)	10,000	DRMF	Cell proliferation
	20,000		
2. College of the City of New York			
"Society for Experimental Biology & Medicine" (DRIR-143A)	150	DRMF	Pub. cancer articles
3. Columbia University			
Bloch (F-184)	Fellow	ACS	Desoxyribonucleic & nuclear prot.,mitotic cycle
Chargaff (BCH-3A)	7,500	ACS	Nucleoproteins
Curth (C-1603 C)	7,117	NCI	Acanthosis nigricans
Davidson (F-146A)	Fellow	ACS	Chemotherapy & nucleic acid turnover in tumors
Dische (PR-16C)	6,000	ACS	Proteins (prosthetic) & growth
Fiala (C-21A)	Ext. time	ACS	Carcinogen accumulation(mitochondria)
Frantz et al. (C-1981)	3,240	NCI	Thyroid (Long-Evans rat) internal & ex.radiation
Gellhorn (DRIR-56C)	79,110	DRMF	Purines & pyrimidines
Gellhorn (C-1386 C2)	10,000	NCI	in chemotherapy
Gellhorn & Hirschberg (C-1894)	8,083	NCI	Chemotherapy, brain tumors, human
Gluecksohn-Waelsch (G-2)	3,070	ACS	Genetics,embryonic death,early pregnancy
Gold (F-159A)	Fellow	ACS	Steroidal patterns,adrenal virilism & cortisone
Godman (#114)	2,980	JGG	Mitotic cycle & antimetabolites
Gray (DRIR-243)	100	DRMF	Spon.lecture in U.S.,Dr.L.H.Gray,Great.Brit.
Graff	16,000	EUPF	Growths in animals
Graff & Haagensen (C-1794)	10,000	NCI	Anti-leukemia protective factor
Gusberg (C-1793)	7,500	NCI	Radiosensitivity, cervical, humans
Habif (DRIR-244)	15,000	DRMF	Chemotherapy
Hudson (BCH-6A)	6,000	ACS	Acid Phosphatase,human prostatic & adenoma
Hudson & Reiner (C-1639 C)	5,000	NCI	Prostate,enzymatic glutamine synthesis
Hyman (DRIR-255)	7,500	DRMF	Iron metabolism & neoplastic disease
Jailer (S-12D)	4,000	ACS	Metabolism,estrogens,adrenal steroids & proteins
Lattes (DRIR-247)	3,200	DRMF	Mitotic cycle & antimetabolites - cytochemical
Levy (ENV-2B)	Ext. time	ACS	Oral neoplasms, tongue
Lieberman (C-1918)	16,300	NCI	Urinary 17-ketosteroids & cortisone,hydrocortisone
Murray & Chargaff (DRIR-162B)	6,480	DRMF	Mitosis poisons
Oppenheimer (C-1620 C)	32,076	NCI	Invest.,imbedding plastic films
Quimby (R-16A)	8,527	ACS	Radiation dosage
Rappleye (INSTR-18F)	125,000	ACS	Stud.,Insti. Cancer Research & Francis Delafield Hosp.
Rittenberg (IS-2G)	10,935	ACS	Metabolism, proteins, tissues
Rittenberg et al. (CIE-3G)	15,000	ACS	Isotope technique, humans
Ryan (BC-13F)	7,000	ACS	Biochemical mutants microorganisms
Shemin (MET-24)	6,000	ACS	Biosynthesis porthyrins
Shils & Shapiro (C-1783)	5,672	NCI	Chemotherapy, vitamin content of host
Stork (CH-16)	7,000	ACS	Colchicine & related tropolone systems
Taylor (C-1797)	6,884	NCI	Human ovary, gynecologic neoplasms
Taylor & Lieberman (DRIR-215A)	23,500	DRMF	Cyto. & biochemistry, neoplasms, human
Wallace (DRF-139)	Fellow	DRMF	Steroidal excretion patterns in adrenal virilism
	471,774		

		Amount	Agency	Research Subjects
3.	**Cornell University**			
	Cattell & Kensler (BI-2F)	7,500	ACS	Azo dyes, liver, rats
	Engle (C-1905)	8,310	NCI	Multiple myeloma, abnor.proteins & plasma cells
	Ferguson (C-1917)	2,862	NCI	Colchicine, biological & pharmacological
	Ferguson (C-1992)	9,134	NCI	
	Kidd (CPB-18B)	Ext. time	ACS	Structure changes & antibodies, cytoxic agents
	Kidd (V-2G)	15,000	ACS	Virus papillomas, cytological & biological
	Papanicolaou (INSP-58B)	48,000	ACS	Exfoliative secretions breast
	Riker (MA-7E)	Ext. time	ACS	Pharmacology compounds & mitosis & growth
		90,806		
4.	**Francis Delafield Hospital**			
	"Genetics Society of America"[1] (DRIR-242)	1,000	DRMF	Contributions send members Int.Cong.Genetics Italy
5.	**Fordham University**			
	Berger (C-492 C5)	2,160	NCI	Polyploidy & diploid plants
	Brown (C-1390 C2)	5,616	NCI	Heterocyclic analogs compounds
	Brown (C-1821)	4,050	NCI	Sex hormones
	Cerecedo (DRIR-41B)	7,200	DRMF	Nucleic acids & growth,purine & amino acid
	Cerecedo (C-1370 C2)	6,700	NCI	composition tissues
		25,726		
6.	**Harlem Hospital**			
	Wright (DRIR-50C)	15,000	DRMF	Tissue culture
	Young (C-1607 C)	9,913	NCI	Triethylene melamine, antibiotics, folic acid
		24,913		antagnoists, achromycin, ACTH
7.	**Haskins Laboratories**			
	Hutner (CP-57)	4,700	ACS	Nutrition, lipid growth, microorganisms
	Zahl & Albaum (C-1622 C)	9,115	NCI	Blood & tissue levels nucleotides
		13,815		
8.	**Memorial Center for Cancer & Allied Diseases**			
	Biesele (C-678 C5)	11,100	NCI	Tissue culture
	Bodansky (C-1443 C2)	12,085	NCI	Adrenal & other steroid & biochem.blood, tissues
	Bodansky & Randall (C-1694 C)	15,000	NCI	Composition intracellular phase,surgery, human
	Brown (C-471 C5)	28,336	NCI	Nucleo-proteins & growth
	Burchenal (C-679 C5)	17,500	NCI	Chemotherapy exper. leukemia
	Changus (C-1971)	4,860	NCI	Histochemical differentiation bone tumors
	Fath (DRF-46A)	Fellow	DRMF	Thyroid-adrenal relationships
	Fox (DRF-124A)	Fellow	DRMF	Nucleic acid biosynthesis,nucleotides & ribofuranosyl nuc.
	Gallagher (S-4F)	30,600	ACS	Steroid excretion
	Gallagher (C-440 C4)	39,009	NCI	Biochemical & chemical inves.steroids
	Guthrie (C-1848)	9,681	NCI	Chem.genetics bacteria & nucleic acid metabolism
	Hansbury (F-169)	Fellow	ACS	Thyroid stimulating hormone(TSH)& lipid metabolism
	Hamilton (C-1813)	5,899	NCI	Nucleic acids & compounds & human leukocytes
	Kappas (F-107B)	Fellow	ACS	Steroid metabolism
	Karnofsky (C-675 C5)	12,733	NCI	Neoplastic tissue,chick embryo,Hodgkin's disease
	Koch (SG-4)	Scholar	ACS	Hemoglobin metabolism & ionizing irradiation
	Laughlin & Nickson (R-21)	8,100	ACS	Cell differential sensitivity & radiation
	Li (DRF-140)	Fellow	DRMF	Hypophysectomy & hypothalamic irration,mammary gland
	Mellors (DRIR-258)	9,500	DRMF	Quan.analy.cell interference microscopy
	Murphy (DRF-117A)	Fellow	DRMF	Biochem.,resistence A-methopterin
	Nickson & Escher (DRIR-72B)	10,000	DRMF	Steroid changes,hormone therapy,radiation, mammary gland
	Nickson & Laughlin (DRIR-226A)	22,000	DRMF	High energy radiation, humans
	Nickson & Seal (C-1579 C)	13,000	NCI	Prog.eval.rotational therapy to 250 KV
	Ortega (DRF-141)	Fellow	DRMF	Microscopy, humans
	Pearson (DRIR-259)	10,000	DRMF	Altered hormonal environ.& breast cancer
	Philips (C-415 C5)	38,921	NCI	Program chemotherapeutic agents
	Philips	20,000	EUPF	
		950,160		

		Amount	Agency	Research Subjects
	Memorial Center (Cont'd)			
	Poppell (DRF-101A)	Fellow	DRMF	Cardiopulmonary function & radical surgery
	Randall & Fortner (C-1877)	5,522	NCI	Etiology, gallstones
	Rawson et al. (EEP-14G)	11,000	ACS	Thyroid, biology
	Rawson & Pearson (C-925 C5)	29,772	NCI	Tissue catabolism & metabolism, humans
	Rhoads (INSTR-10G)	350,000	ACS	Steroid cancer chemotherapy
	Rhoads (DRIR-103B)	7,500	DRMF	Damon Runyon Research beds, children
	Rhoads (DRIR-150A)	40,000	DRMF	Damon Runyon Research Ward
	Rhoads (DRIR-219A)	34,000	DRMF	Clin.Stud.,viruses
	Rhoads & Day (DRIR-223A)	24,300	DRMF	Respiratory,upper gastro-intestinal & environment
	Rhoads et al. (DRIR-208A)	13,000	DRMF	Pathologic physiology, prostatic cancer
	Rhoads & Marshall (DRIR-76A)	15,000	DRMF	Hormone therapy, vesical carcinoma, dogs
	Rhoads & Rawson (DRIR-218A)	12,000	DRMF	Serum iodine,serum protein & thyroid & radioiodine
	Rhoads & Richardson (DRIR-241)	7,200	DRMF	Histopathology,hypothysectomized animals fed carcino.
	Rhoads et al. (C-1889)	40,000	NCI	Clin. eval. chemotherapeutic agents
	Richardson et al. (C-1809)	10,000	NCI	Inhibitory actions chemical carcinogens
	Roberts (DRF-118A)	Fellow	DRMF	Metabolic balance, surgical patients
	Sonenberg (SG-9)	Scholar	ACS	Pituitary physiology
	Toolan (#108)	15,000	JCC	Human tumors in animals
	West (SG-16)	Scholar	ACS	Endocrine factors
	Woolley (C-1796)	17,542	NCI	Steroids & cancer control
		950,160		
9.	Montefiore Hospital			
	Laszlo (DRIR-246)	10,000	DRMF	Metabolic studies, patients
	Laszlo (C-1540 C2)	23,170	NCI	
		33,170		
10.	Mount Sinai Hospital			
	Hollander (C-228 C7)	12,997	NCI	Gastric mucus secretion,gastric can.& peptic ulcer
	Kremen (C-1876)	8,154	NCI	Nutritional adjustment & extensive intestinal resections
	Sobotka (C-1791)	8,915	NCI	Lipoid complexes serum albumin
		30,066		
11.	New York Medical College			
	Neuberg (C-16C)	4,000	ACS	Nucleic acid complexes & growth
12.	New York University			
	Brendler (H-5B)	5,000	ACS	Nutrition, endocrine therapy, prostatic
	Brendler (C-1599 C)	5,994	NCI	
	de Bodo (EEP-15D)	11,000	ACS	Adrenal cortical hormones & pituitary
	Goldsmith (N-14B)	3,780	ACS	Nucleic acid metabolism,drosophila melanogaster
	Gordon (CPB-19B)	5,870	ACS	Endocrine factors, blood formation & destruction
	Harnly (DRIR-256)	9,500	DRMF	Larval fluids of drosophila melanogaster
	Harnly & Kopac (C-1580 C)	3,600	NCI	Nutrition, temperature, tumor genes, drosophila
	Hirshfield (CP-52A)	4,500	ACS	Nucleus cytoplasm & n.c. complex & cell growth & differen.
	Landauer (DRF-131)	Fellow	DRMF	Pressure-temperature,energetics Sol-gel react.,cell div.
	Levy (BCH-15)	5,500	ACS	Chemical structure proteins
	Marsland (C-807 C4)	2,451	NCI	Mechanisms cell division,
	Marsland (C-807 C5)	2,986	NCI	Pressure-temperature study
	Mateyko (DRF-125A)	Fellow	DRMF	Intracellular stratification,histochem,& cytochem. cells
	Mulholland (INSTR-61B)	30,000	ACS	Supporting & integrating projects at Center
	Nelson (DRIR-138A)	81,680	DRMF	*Respiratory,environment,inhaled materials
	Ochoa (E-10F)	7,560	ACS	Enzyme systems,biolog.oxidations & synth.,animal tissues
	Ratner (E-21E)	6,750	ACS	Enzyme mech.,amino nitrogen, urea formation
	Sheehan (DRIR-247)	5,679	DRMF	Equipping operating room
	Slautterback (F-153A)	Fellow	ACS	Proteolytic activ.microsome fract.,neoplas. tissue
	Sulzberger (C-1379 C2)	10,000	NCI	Immunologic & allergic changes
	Taylor (CP-41B)	4,500	ACS	Tissue survival after freezing
		206,350		

		Amount	Agency	Research Subjects
13.	New York Zoological Society			
	Gordon (C-297 C5)	17,200	NCI	Pigment cell growth
14.	Presbyterian Hospital			
	Golden et al. (C-1756)	135,975	NCI	Multimillion volt x-ray & electron beam therapy
	Klegerman (DRIR-235)	2,954	DRMF	Graphics & localizing radium implants
		138,929		
15.	Rockefeller Institute			
	Marmur (F-178)	Fellow	ACS	Bacterial transformation
	NEW YORK STATE			
1.	Albany Medical College (Albany)			
	Wright & Wolfe (C-1105 C3)	11,707	NCI	Etiology spontaneous mammary tumors Milk agent, rats
2.	Basset Hospital (Cooperstown)			
	Hanks (C-1027 C4)	4,470	NCI	Course: Principles, techniques, & applications of tissue culture
3.	University of Buffalo (Buffalo)			
	Bloom (C-1853)	13,825	NCI	Porphyrin, hemoglobin, iron & copper metabolism
	Carruthers (BCH-2A)	5,000	ACS	Polarographically reducible substances
	Kimball (INSTR-76)	15,000	ACS	Institutional research, U. Buffalo
	Lowe (C-1693 C)	8,000	NCI	Cortisone, nucleic acid metabolism, liver
	Whitbsky (DRIR-137A)	12,960	DRMF	Properties, tissues
		54,785		
4.	Carnegie Institution of Washington (Cold Spring Harbor)			
	Demerec (EG-21F)	7,400	ACS	Mutagens
5.	Cornell University (Ithaca)			
	Singer (MCR-19A)	4,000	ACS	Nerve & regeneration of amputated extremity, regeneration process, salamander, etc.
6.	Maimonides Hospital (Brooklyn)			
	Friedgood (C-1383 C2)	4,000	NCI	Nitrofurans
7.	Nassau Hospital (Mineola)			
	Ponder (CPB-14D)	5,000	ACS	Hemolytic material & tissue
8.	New York State College of Agriculture (Ithaca)			
	Smith & Srb (C-1256 C3)	6,000	NCI	Chromosome structure, gene mutation & certain chemicals
9.	Polytechnic Institute of Brooklyn (Brooklyn)			
	Harker (DRIR-200A)	15,000	DRMF	Protein structure
10.	Research Fdn. of the State Univ. of New York (Brooklyn & Syracuse)			
	Burlington (C-1875)	1,000	NCI	Hormones, peptide bond synthesis
	Schulman (C-1852)	5,848	NCI	Biosynthesis of porphyrins
	Tepperman & Tepperman (EDC-11)	4,752	ACS	Cell adaptation, mammalian tissue
	Weiss (C-1800)	4,590	NCI	Amino groups, blood & hematopoietic tissues
	Westerfeld (N-10D)	6,000	ACS	Diet, xanthine oxidase etc.
		22,190		

	Amount	Agency	Research Projects
11. University of Rochester (Rochester)			
Dounce (C-994 C3)	5,500	NCI	Biochem.,cell nuclei,enzyme systems
Holtfreter (CP-8F)	Ext. time	ACS	Differentiating cells
Keutmann & Burton (C-1003 C3)	13,000	NCI	Paper partition chromatography to steroid hormones,human
Keutmann & Waterhouse (C-739 C5)	25,493	NCI	Metabolism
Miller (#101s)	22,500	JCC	Protein synthesis & neoplastic growth
Morton & Keutmann (INSTR-57C)	23,185	ACS	Tumor host relationships
Stolz (#111)	10,000	JCC	Oxidation capacity,hormone-stimulated uterus
Tobin (C-1946)	3,684	NCI	Lymphatics, human lungs
	103,362		
12. St. Johns University (Brooklyn)			
Lilly (CP-58)	3,000	ACS	Nutrition & growth, protozoa
13. Society for Study of Development and Growth (Brooklyn)			
Boell (C-1970)	1,000	NCI	12 Sympos.,Soc.,Study of Development & Growth
Nickell (Treasurer) (INST-3E)	1,000	ACS	Annual " " " " " " "
	2,000		
14. Trudeau Foundation (Saranac Lake)			
Vorwald (ENV-4A)	13,618	ACS	Adenocarcinoma,lung,rats, & beryllium
Vorwald & Pratt (DRIR-75B)	9,265	DRMF	Industrial dust & lung cancer
	22,883		
15. Vassar College (Poughkeepsie)			
Kuntz (R-20)	9,000	ACS	Irradiation & neoplasia on nucleolytic enzymes of lymphoid tissues, mice
16. Waldemar Medical Research Foundation (Brooklyn)			
Molomut (CP-54A)	4,892	ACS	Prior allergic conditioning
Spain & Molomut (C-1658 C)	9,000	NCI	Alteration of response cancer grafts, inter-abdominal sarcoma & heterologous tumor grafts
	13,892		
NORTH CAROLINA			
1. Duke University (Durham)			
Anlyan (C-1439 C2)	3,996	NCI	Tissue antigen, gastric secretions, stomach
Beard (V-14D)	12,500	ACS	Avian leukosis virus
Beard (C-972 C4)	20,000	NCI	
Eckert (SG-11)	Scholar	ACS	Avian leukosis virus
Engel (EEP-10E)	6,000	ACS	Hormones, metabolism, steroid hormones
Hobbs (DRIR-186A)	37,000	DRMF	Smoke aerosols
McKinney (F-125B)	Fellow	ACS	Metabolism,human bone marrow & chemicals,radiant energy
Naylor (CP-42B)	4,498	ACS	Maleic hydrazide - plant growth inhibitor
Rundles (C-1843)	4,752	NCI	Triethylene melamine therapy & serum proteins, humans
Smith (C-1636 C)	2,513	NCI	Testical tumors
Werk (F-192)	Fellow	ACS	Ketone metabolism, human
Willet (DRF-39)	Fellow	DRMF	Abnormal proteins,multiple myeloma
	91,259		
2. University of North Carolina (Chapel Hill)			
Bunce (C-1867)	2,700	NCI	P-32 uptake by bladder tumors
Cutter (CP-38C)	3,564	ACS	Isolated endosperm nuclei & nucl.cytoplas.relationships
Hooker (#52)	4,000	JCC	Testical tumors, mice
Irvin (BCH-13)	6,000	ACS	Nucleoproteins & nucleic acids,tissues,interaction molecules
Thomas & Peters (C-1915)	5,477	NCI	Radiogold,lymphatic, human
	21,741		
3. Wake Forest College (Winston Salem)			
Swanson (E-37B)	3,200	ACS	Intermediary metabolism,washed particles liver

	Amount	Agency	Research Subjects
NORTH DAKOTA			
N. D. Agricultural Experimental Station (Fargo)			
Sleeper (MET-25)	1,800	ACS	Oxidative metabolism of starch & cellulose by actinomycetes
OHIO			
1. University of Cincinnati (Cincinnati)			
Freiman (C-1836)	3,240	NCI	Enzyme activation in tissue
Schiff (DRIR-245)	9,700	DRMF	Physiochemical prop.,gastric mucus in gastric c.
Vilter (BCH-19)	6,000	ACS	Nuclease activity,cells,human leukemia & inhibitors
	18,940		
2. Ohio State University (Columbus)			
Doan (INSTR-56C)	15,000	ACS	Coordinated insti. research program
Doan (C-1560 C)	53,946	NCI	Total body irradiation on sub-human primates
Hayes & Knouff (C-1817)	4,536	NCI	Acetal lipids in cells
Meyers (C-1899)	15,500	NCI	Artificial radioisotopes for therapy
Morton	25,000	AEC	Radioisotopes & therapy
Schlumberger (C-1567 C)	3,626	NCI	Study of reaction to injury
Towbin (C-1623 C)	5,391	NCI	Transplants,human tumors,cortisone,total body radiation
von Haam (C-1683 C)	5,380	NCI	Biological testing carcinogenic hydrocarbons
	128,379		
3. Western Researve University (Cleveland)			
Benua (F-163)	Fellow	ACS	Thyroid, radioiodine
Cantoni (E-40B)	10,000	ACS	Enzymatic mechanisms in transmethylation
Dobyns (CS-13B)	8,500	ACS	Thyroid cancer
Hirschmann (C-1679 C)	6,324	NCI	Adrenal steroids, chemistry & metabolism
Kaufman (C-1735)	13,371	NCI	Animal viruses,animal & human tumors
Leuchtenberger (C-1814)	12,074	NCI	Mitosis inducing properties of tumors
Sayers (CIE-8F)	12,852	ACS	Pituitary adrenocorticotrophic hormone
Simeone (C-1571 C)	4,408	NCI	Gastro-intestinal tract, hydrocarbons
Weisberger (CPB-17B)	Ext. time	ACS	Cysteine & related compounds
Weisberger (C-1678 C)	5,934	NCI	in leukopoiesis
Wood (IS-5G)	12,000	ACS	Isotopic tracer studies biochem.problems re physiology cells
	85,463		
OKLAHOMA			
1. Oklahoma Medical Research Institute (Oklahoma City)			
Kochakian (INSTR-62B)	31,900	ACS	Growth
Kochakian (C-1954)	10,284	NCI	Androgens & tissue enzymes
Rebell & Lamb (C-1930)	4,644	NCI	Systemic mycoses in mice with lymphomas
Reifenstein (C-1564 C)	24,732	NCI	Agents altering tissue growth rate of tissues, man and animals
	71,560		
2. University of Oklahoma (Oklahoma City)			
Everett (C-1633 C)	4,500	NCI	Mucopolysaccharides associated proteins, tissue
Hopps (C-1926)	6,025	NCI	Factors inhibiting neoplastic growth
Shetlar (CS-17A)	4,940	ACS	Serum polysaccharide tests
	15,465		
OREGON			
University of Oregon (Portland)			
Clancy (CP-61)	2,000	ACS	Transplants,nutrition,phenotype,melanotic tumors eye
Fitzpatrick et al. (DRIR-257)	17,000	DRMF	Metabolism of melanomas
Grossman (C-1206 C2R)	4,060	NCI	Steroid hormones,in vitro incor.C^{14}glycine,liver protein
Lerner (MET-1C)	4,750	ACS	Melahomas, metabolism & chemotherapy
	27,810		

PENNSYLVANIA

	Amount	Agency	Research Subjects
1. Children's Hospital of Philadelphia (Philadelphia)			
Gostling (BAF-21)	Fellow	ACS	Biological investigation virus hypothesis
2. Hahnemann Medical College & Hospital (Philadelphia)			
Briody (VI-2)	8,000	ACS	Viruses, Krebs 2 "ascites tumor", mice
Oesper (MET-15A)	4,950	ACS	Oxidative reaction of glycolysis
van Dyke (C-1878)	6,600	NCI	Thyroid & thymic neoplasia
Wase & Boyd (C-1881)	8,000	NCI	Biochemical relations,2-acetylaminofluorene &
	27,550		riboflavin during chemicarcinogenesis
3. Immaculata College (Immaculata)			
Suter (DRIR-196A)	1,500	DRMF	Spleen extract action on fatty acid metabolism of tissues
4. Institute for Cancer Research (Philadelphia)			
Briggs (C-913 C3)	8,352	NCI	Nucleus & embry.differen. & carcinogenesis
Creech (CBC-2F)	Ext. time	ACS	Polysaccharides, immunization,
Creech (PR-13D)	Ext. time	ACS	Hydrocarbons
Diller (CP-45B)	3,000	ACS	Fungi
Hauschka & Levan (C-1663 C)	12,225	NCI	Ascites tumors chromosomes & immunogenetic prop.
Lavine (C-1252 C3)	2,700	NCI	Sulfur compounds
Patterson (C-1253 C3)	19,336	NCI	Crystallographic tech.&struc.& prop.bio.systems
Reimann (INSTR-21F)	150,000	ACS	Research in application of various techniques
Schultz (EG-29D)	9,000	ACS	Genes, nutrition, drosophila melanogaster
Schultz (C-1613 C)	15,778	NCI	Heterochromatic chromosomes-cytochemical
Stekol (C-1251 C3)	13,900	NCI	Metabolic interconversion amino acids,
Stekol (C-1251 C3s)	2,500	NCI	animals
Stekol (C-1251 C4)	17,580	NCI	
Toennies (C-1249 C3)	11,660	NCI	Sulfur containing nucleo-proteins
Toennies (C-1479 C2)	14,850	NCI	Folic acid activity blood
Weinhouse (E-30D)	7,500	ACS	Intermediary cell metabolism,isotopic tracers
Weinhouse (C-1299 C3)	20,000	NCI	Intermediary metabolism, tissues
Weinhouse (C-1476 C)	10,000	NCI	
Wenner (DRF-110A)	Fellow	DRMF	Oxidative metabolism neoplastic tissue
	318,381		
5. Jefferson Medical College (Philadelphia)			
Miller & Turner (C-1585 C)	8,748	NCI	Myelokentric & lymphokentric acids
Paschkis & Cantarow (C-1845)	5,616	NCI	Antimetabolites & chem.induced carcinogens
Rutman et al. (C-1307 C3)	7,500	NCI	Uracil, nucleic acid formation,acetaminofluorene,rats
Schepartz (C-1803 C3)	4,914	NCI	Phenylalanine & tyrosine in vitro metabolism
Tocantins (C-1931)	14,000	NCI	Hemostasis neoplasms, blood-forming organs
	40,778		
6. Montefiore Hospital (Pittsburgh)			
Abrams (MET-17)	6,000	ACS	Nucleic acid purine systhesis, rapid tissue growth
7. University of Pennsylvania (Philadelphia)			
Berkowitz (DRF-134)	Fellow	DRMF	Gastric achlorhydria,indicator-exchange resins
Blakemore (SG-6)	Scholar	ACS	Pulmonary function,operative proc.& post-op.care
Borei (CP-56)	6,000	ACS	Enzyme systems & fertilization
Boyle (C-1959)	6,147	NCI	Carcin.chem.& normal & ascorbic acid def.guinea pigs
Breedis (C-1116 C3)	4,979	NCI	Blood supply neoplasms, salamander
Chamberlain (R-18)	7,000	ACS	Microdosimetry determinations
Chamberlain (C-1984)	2,612	NCI	radiation therapy
Dituri (DRF-136)	Fellow	DRMF	Lipid synthesis,particle-free extracts liver
Ehrenstein (C-757 C3)	24,624	NCI	Synthesis of steroids
Flexner (C-1807)	10,879	NCI	Embryonic cell

		Amount	Agency	Research Subjects
	University of Pennsylvania (Cont'd)			
	Goddard & Erickson (C-488 C4)	15,000	NCI	Cells, higher plants
	Heilbrunn (C-411 C5)	13,876	NCI	Cell division & colloidal change in protoplasm
	Jones (CH-2C)	Ext. time	ACS	Urethane, animal & man
	Lucke (#93)	7,700	JCC	Enzyme patterns, metastasis
	Lynn (F-176)	Fellow	ACS	Water-soluble enzy.sys.pigeon liver,fatty acids,acetate
	Marshall (C-1957)	14,715	NCI	Protein cytochemistry
	Pendergrass (INSTR-64B)	50,000	ACS	Research program
	Sayre (C-1822)	1,500	NCI	Relation structure & activity carcinogens
	Seibert (BCH-10A)	6,500	ACS	Oncolytic,immunizing,toxic fractions,rat tumor extracts
	Williams (C-1618 C)	5,000	NCI	Cytology living thyroid tissue changes
	Wilson & Buchanan (C-1135 C3)	4,848	NCI	Nucleic acid metabolism
	Wilson & Gurin (IS-4G)	10,314	ACS	Intermediary metabolism protein,fat,carbohydrate by carbon isotopes
		191,694		
8.	**University of Pittsburgh (Pittsburgh)**			
	Cox (N-20)	5,000	ACS	Maximum growth, rat
	Freiser (C-1882)	7,236	NCI	Trace metals,carcin.subs.interaction nucleic acid metabolites
	Hofmann (MET-9B)	6,500	ACS	Unique fatty acid from lactobacillus arabinosus
	Mirsky & Harbison (C-1891)	7,776	NCI	Pepsinogen in blood & urine,gastric,human
	Olson (N-21)	5,832	ACS	Dietary methyl restriction & leukemia
		32,344		
9.	**Temple University (Philadelphia)**			
	Schultz (C-1966)	5,000	NCI	Experimental chloroma
	Waldron (C-2008)	2,943	NCI	Abnor.respon.blood coagulation to oral ingestion fat, human
		7,943		
10.	**Wills Eye Hospital (Philadelphia)**			
	Leopold (DRIR-254)	4,800	DRMF	Transplants in fungus of eye
11.	**Wistar Inst. of Anatomy & Biology (Philadelphia)**			
	Aptekman (C-1646 C)	11,340	NCI	Vaccine
	Lewis (C-285 C6)	8,002	NCI	Synthesized compounds & dyes retardation & prevention,rats
	Lewis (C-1592 C)	7,560	NCI	Tumor atrophy
		25,902		
	RHODE ISLAND			
1.	**Brown University (Providence)**			
	Chase (ENV-3B)	1,800	ACS	Skin & its derivatives
	Chase (C-592 C2)	7,100	NCI	
	Fenton (N-9D)	4,212	ACS	Nutrition with inbred strains, mice
	Fenton (C-1995)	2,160	NCI	
	Sherman (R-11B)	3,813	ACS	Ionizing radiations on enzyme action of microorganisms
	Wilson (INSTR-68A)	10,000	ACS	Histophysiology, histopathology & cytology mouse liver
	Wilson (C-510 C5)	14,097	NCI	skin, nutritional requirements,diff.strains mice
		43,182		
2.	**Providence College (Providence)**			
	Hickey (MET-22)	7,000	ACS	Labile digitonin precipitable metabolites acetates, chick embryo,living rat liver tissue
3.	**University of Rhode Island (Kingston)**			
	Hartung (N-16A)	2,500	ACS	Factors tumor incidence, drosophila melanogaster

	Amount	Agency	Research Subjects
SOUTH CAROLINA			
Medical College of South Carolina (Charleston)			
Lynch (C-474 C5)	9,650	NCI	Lung tumors
Pratt-Thomas (C-1418 C2)	8,100	NCI	Effect smegma uterine cervix
	17,750		
TENNESSEE			
1. Meharry Medical College (Nashville)			
Hahn	59,872	AEC	Radioactive gold tumor treatment
Johnson (C-1907)	7,036	NCI	Radioactive silver, detection & treatment tumors
	66,908		
2. University of Tennessee (Memphis)			
Dulaney (C-624 C4)	11,685	NCI	Antigenic prop.alpha estradiol protein conjugates
Eades (CS-12B)	4,995	ACS	Amino acid excretion
Hardy (CS-14A)	Ext. time	ACS	Nutrition & alarm response
Overman (H-10B)	7,581	ACS	Adrenal cortical func.,cell membrane,metal ions
Sprunt (C-1207 C2)	9,500	NCI	Protein & amino acid levels,Rous sarcoma,chickens
van Middlesworth (C-1880)	5,464	NCI	Thyroid nodule
Whaley (C-1616 C)	8,200	NCI	Syn.nitrogen isologs chrysene & benzo(a) pyrene,anti-tumor activity
	47,425		
TEXAS			
1. Baylor University (Houston)			
Bond (C-1552 C)	1,512	NCI	Growth, metabolism microorganisms
Collins (R-19)	8,000	ACS	Enzymes & radiation sickness,x-ray irrad.intestine
Hettig (C-1641 R)	4,174	NCI	Hodgkin's disease,nitrogen mustard,x-ray
Rose (C-1707 C)	8,963	NCI	Hodgkin's disease, immunology
Spurr (CH-18)	4,915	ACS	Enzyme inhibition,tumor chemotherapeutic agents
	27,564		
2. Odessa College (Odessa)			
Barnes (DRIR-195A)	1,000	DRMF	Sunshine, chemical composition & physiological properties, biochemical compounds
3. St. Joseph's Infirmary (Houston)			
Marcuse (MOR-25)	4,200	ACS	Initial outgrowth,tissue culture, human tumors
4. Southwestern Fdn. for Research & Education (San Antonio)			
Werthessen (C-1609 C)	7,452	NCI	Estronase concentration in blood
5. University of Texas (Austin, Galveston & Houston)			
Awapara (MET-8B)	3,500	ACS	Sex hormones,metabolism amino acids,prostate
Awapara (C-1831)	9,990	NCI	
Barnett (CP-55)	3,500	ACS	ATP & Krebs cycle,cell div.,marine eggs
Clark (INSTR-23F)	75,000	ACS	Growth, hormonal & radiobiologic
Clark (DRIR-65B)	15,000	DRMF	Cobalt-60
Foster (MET-20)	5,000	ACS	Intermediary metabolism, fungi
Hsu (DRF-115A)	Fellow	DRMF	Nuclear cytology human neoplastic tissue
Jirgensons & Awapara (C-1785)	8,253	NCI	Blood proteins
Oliver (HG-2G)	6,480	ACS	Genetics
Oliver & Lush (G-1)	6,000	ACS	Inheritance patterns,ocular,bovines
Pomerat (CP-12F)	10,000	ACS	Growth, malignant cells
Reid (BCH-16)	5,000	ACS	Natural metabolic inhibitor
Rigdon (C-1469 C)	4,968	NCI	Skin tumors,methylcholanthrene,white Pekin ducks
Wyss (R-17A)	9,000	ACS	Organic peroxides
	161,691		

	Amount	Agency	Research Subjects
UTAH			
1. Utah State Agricultural College (Logan)			
Gardner (EG-36A)	2,484	ACS	Genetic & cytological analysis tumorous head, drosophila melanogaster
2. University of Utah (Salt Lake City)			
Dougherty (CPB-10E)	10,314	ACS	Growth lymphoid tissues,mice,inbred
Fessas (DRF-138)	Fellow	DRMF	Chemotherapy of malignancy
Kimmel (F-59C)	Fellow	ACS	Proteinases activated by sulfhydryl
Plenk (C-1222 C)	3,000	NCI	Radiation induced leukemia by parabiosis
Samuels (EEP-8E)	13,368	ACS	Intermediary metabolism, steroids
Samuels & Reich (C-307 C5)	15,304	NCI	Steroid metabolism
Sandberg (SG-15)	Scholar	ACS	Metabolism & leukemia
	41,986		
VERMONT			
University of Vermont (Burlington)			
Novikoff (E-32D)	5,000	ACS	Rapid growth, rat liver
Pearson (C-431 C5s)	13,687	NCI	Enzymatic,biochemical & cytochemical-carcinogenesis
	18,687		
VIRGINIA			
1. Medical College of Virginia (Richmond)			
Clayton (C-17C)	Ext. time	ACS	Cells,precancerous & tumor-bearing livers
Clayton (C-1541 C)	4,500	NCI	Minerals & carcinogenesis
Clayton (C-1541 C2)	5,184	NCI	
Williams (INSTR-40E)	10,000	ACS	Support research beds,radioactive isotopes, chemotherapeutic & endocrine agents, doses
	19,684		
2. University of Virginia (Charlottesville)			
Burger (BCH-12)	5,886	ACS	Phosphoric acid analogs, nucleotides
Chanutin (C-1788)	12,000	NCI	Iron metabolism, irradiated rats
Chanutin & Hoch (C-269 C4)	12,500	NCI	"Trace" components, serum & tissues
Hoch-Ligeti (C-1583 C)	7,650	NCI	Nutrition & hepatic tumors
Parson (C-1815)	16,048	NCI	Amino acid metabolism
Rappaport (C-1453 C)	2,000	NCI	Ovular tumors plants
	56,084		
WASHINGTON			
1. State College of Washington (Pullman)			
Nilan & Elliott (R-15B)	2,950	ACS	Oxygen & low temperature & biologic effects x-rays
2. University of Washington (Seattle)			
Dowmont (F-141A)	Fellow	ACS	Enzymatic degradation yeast triose phosph.dehydrogenase
Everett (C-1681 C)	5,788	NCI	Tissue localization & metabolism of C^{14}
Fletcher (C-1744 S)	2,260	NCI	Fluorene & aminofluorene derivatives
Groman (VI-3)	5,000	ACS	Corynebacterium diphtheriae
Hanahan (BCH-4A)	6,500	ACS	Phospholipide-splitting enzymes
McDonald (CH-13)	5,500	ACS	Chemotherapy,prostate
Whiteley (CP-46B)	4,968	ACS	Morphogenesis,ciliate protozoa
	30,016		

WISCONSIN

	Amount	Agency	Research Subjects
1. Marquette University (Milwaukee)			
Laskowski (E-35C)	6,500	ACS	Nucleolytic enzymes
Saunders (C-1481 C2)	5,790	NCI	Melanin pigmentation, higher vertebrates
	12,290		
2. University of Wisconsin (Madison)			
Baumann (PR-7G)	Ext. time	ACS	Diet & tumor formation
Cohen (C-822 C3)	12,500	NCI	Soluble proteins & tissues
Deutsch (C-1786)	8,910	NCI	Multiple myeloma proteins (Bence-Jones p)
Huskins (BO-14E)	4,500	ACS	Chromosome reproduction & mitosis
Johnson (MET-3C)	1,836	ACS	Penicillin
Lardy (MET-2C)	7,000	ACS	Metabolic regulators
LePage (E-13G)	4,536	ACS	Phosphorylated compounds & cells
Mahler (BCH-9A)	4,500	ACS	DPNH - cytochrome(c) reductase
Miller & Miller (N-5F)	5,454	ACS	Mechanism, chemical carcinogenesis
Miller & Miller (C-355 C6)	12,258	NCI	Hepatic neoplasms
Miller & Miller (C-355 C7)	12,258	NCI	
Mueller (C-1897)	7,992	NCI	Mechanism,action,estrogenic hormones
Parks (F-111B)	Fellow	ACS	Enzymes
Potter (C-646 C4)	16,740	NCI	Biochemical synthesis & growth
Rieck (SG-13)	Scholar	ACS	Carcinogenic wave-lengths of ultraviolet
Riker & Hildebrandt (MCR-26)	9,000	ACS	Growth & metabolites & basic processes
Rusch (INSTR-71A)	25,000	ACS	Genesis,metabolism,chemotherapy neoplas.tissues
Rusch & Boutwell (C-828 C4s)	3,780	NCI	Metabolism tumor resistence
Rusch & Boutwell (CH-15)	6,966	ACS	
Skoog (BO-19D)	7,500	ACS	Chem.control growth & organ forma.,plant tissue
Waisman (N-22)	5,292	ACS	Antibiotics & metabolic antagonists, growth
Waisman (C-1792)	6,000	NCI	Amino acid metabolism, leukemia, rats
	162,022		
"Chemotherapy Screening Techniques" (1952-53 funds)	150,000	ACS	

* Indicates research concerning tobacco